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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15/

Date: 21-01-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements and Asphalting to BEL 6th Block Roads in Ward No.09}

Ref.: Letter No. Testing/BUB/2014-15/ dated 19-01-2015

Sample supplied to lab by: Sri.C.Shivaraj, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Vidyaranyapura Sub-Division. BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	97.20	95-100
26.50	---	-
22.40	71.80	60-80
11.20	42.60	40-60
4.75	30.90	25-40
2.36	19.80	15-30
0.600	16.20	8-22
0.075	5.00	0-8

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	23.70%	Not more than 30 %
2	Impact Value	----,,----	22.50%	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM

*As Furnished by Client

The Results relate only to the items tested.

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DEPARTMENT OF CIVIL ENGINEERING

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BANGALORE - 560 056

BUB/CTE/2014-15/

Date: 24-01-2015

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC).
{Project*: Improvements and Asphalting to BEL 6th Block Roads in Ward No.09}

Ref.: Letter No. Testing/BUB/2014-15/ dated 22-01-2015

Sample supplied to lab by: Sri.C.Shivaraj, Contractor, Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

TEST RESULTS:

7. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.09%**
8. **Gradation Test :**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100**	100
9.5	**94.00**	90—100
4.75	**40.00**	35—51
2.36	**32.60**	24—39
1.18	**22.30**	15—30
0.3	**17.00**	09—19
0.075	**4.50**	03—08

*As Furnished by Client

The Results relate only to the items tested.

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Date: 24-01-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	**Requirements** as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	**23.40%**	Not more than 30 %
2	Impact Value	----,,----	**21.80 %**	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----,,----	**0.300%**	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----,,----	**98.00 %**	Minimum retained coating 95.0 %

*As Furnished by Client

The Results relate only to the items tested.

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DEPARTMENT OF CIVIL ENGINEERING BANGALORE UNIVERSITY

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಸಾ., ಬೆಂಗಳೂರು-97.

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JNANA BHARATHI
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BUB/CTE/2014-15

Date: 21-01-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements and asphalting to BEL 6th Block roads in Ward No 09}in Vidyaranypaura sub division}.

Ref.: Letter No. Testing/BUB/2014-15, dated 19-01-2015

Name of the Agency/Contractor* : Mr. C.Shivaraj, Contractor,BBMP, Bangalore.

Report required for* : Assistant Executive Engineer,
Vidyaranypaura Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53	100.00	100
45	96.70	95-100
26.5	---	-
22.4	76.00	60-80
11.2	53.00	40-60
4.750	34.00	25-40
2.360	19.20	15-30
0.600	16.30	8--22
0.075	2.90	0--8

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21/01/2015

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Date: 24-01-2015

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC). {Project*: Improvements and asphalting to BEL 6th Block roads in Ward No 09}in Vidyaranypaura sub division}.

Ref.: Letter No. Testing/BUB/2014-15, dated 22-01-2015

Name of the Agency/Contractor* : Mr. C.Shivaraj, Contractor,BBMP, Bangalore.

Report required for* : Assistant Executive Engineer, Vidyaranypaura Sub-Division, BBMP, Bangalore.

TEST RESULTS :

3. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.10** %
4. **Gradation Test** :

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specfications-2001 (Grading – 2)
13.2	**100.00**	100
9.5	**95.70**	90—100
4.75	**42.00**	35—51
2.36	**29.60**	24—39
1.18	**19.20**	15—30
0.3	**13.40**	09—19
0.075	**4.80**	03—08

*As Furnished by Client.

The Results relate only to the items tested.

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